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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/580,432	02/07/2007	Remi Noirot	612.46212X00 .	2550
20457 A NTONEL I I	7590 01/24/2008 TERRY, STOUT & KRA	US LIP	EXAMINER	
1300 NORTH	SEVENTEENTH STREE			
SUITE 1800 ARLINGTON	, VA 22209-3873		ART UNIT PAPER NUMBER 3748	
Antenvolory	, 111 222 07 3073			
			MAIL DATE	DELIVERY MODE
		·	01/24/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	ill.			
	Application No.	Applicant(s)		
•	10/580,432	NOIROT ET AL.		
Office Action Summary	Examiner	Art Unit		
	BINH Q. TRAN	3748		
The MAILING DATE of this communication	appears on the cover sheet w	ith the correspondence address	•	
Period for Reply		AONTHAON OF THEFTY (20) DAY	' C	
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by standard patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNIATION OF	CATION. reply be timely filed NTHS from the mailing date of this communicat BANDONED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on _	•			
2a) ☐ This action is FINAL . 2b) ⊠ 7				
3) Since this application is in condition for allo	wance except for formal mat	ters, prosecution as to the merits	is	
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.I). 11, 453 O.G. 213.		
Disposition of Claims				
4)⊠ Claim(s) <u>1-12</u> is/are pending in the applicat	tion.			
4a) Of the above claim(s) is/are with	drawn from consideration.			
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1-12</u> is/are rejected.				
7) Claim(s) is/are objected to.	ad/or alaction requirement			
8) Claim(s) are subject to restriction ar	id/or election requirement.			
Application Papers				
9) The specification is objected to by the Exan				
10) The drawing(s) filed on is/are: a)				
Applicant may not request that any objection to			47.15	
Replacement drawing sheet(s) including the co				
11) The oath or declaration is objected to by the	e Examiner. Note the attache	u Onice Action of John F TO-132.		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).		
a)⊠ All b)□ Some * c)□ None of:				
1. Certified copies of the priority docum		Amuliantian Na		
2. Certified copies of the priority docum3. Copies of the certified copies of the				
3. Copies of the certified copies of the paper application from the International Bu				
* See the attached detailed Office action for a		t received.		
		•		
Attachment(s)				
1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No	(s)/Mail Date Informal Patent Application		
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 05/24/2006.	6) Other:			

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DETAILED ACTION

Receipt and entry of Applicant's Preliminary Amendment dated May 24, 2006 is acknowledged.

Specification

The disclosure is objected to because of the following informalities: The following headings of the specification are missing, such as

- Background of the Invention.
- Brief Summary of the Invention.
- Brief description of the drawing(s) as required by 37 FR 1.74.
- Detailed Description of the drawing(s). Appropriate correction is required

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-12 are rejected under 35 U.S.C. 102 (e) as being anticipated by Van Nieuwstadt et al. (Van Nieuwstadt) (Patent Number 6,988,361).

Regarding claims 1 and 8, Van Nieuwstadt discloses a method for regenerating a particle filter (26) built into an exhaust line (Fig. 1) of an internal combustion engine (10), with the exhaust gases passing through the filter from an inflow face to an outflow face (Fig. 1), characterized in that, during filter regeneration: the internal temperature (T1, T2) of at least two regions of the filter (12) is monitored; the oxygen level of the exhaust gases is reduced when at least one of the temperatures monitored is greater than a critical temperature; the oxygen level of the exhaust gases is increased to continue filter regeneration when all the temperatures monitored are less than the critical temperature (e.g. See col. 6, lines 20-67; col. 7, lines 1-67; col. 8, lines 1-43).

Regarding claims 2 and 9, Van Nieuwstadt further discloses the internal temperature of one region of filter (12) is monitored near its inflow face (e.g. See col. 7, lines 4-67; col. 8, lines 1-30).

Regarding claims 3 and 10, Van Nieuwstadt further discloses that the internal temperature of one region of filter (12) is monitored near its outflow face (e.g. See col. 7, lines 4-67; col. 8, lines 1-30).

Regarding claims 4 and 11, Van Nieuwstadt further discloses the internal temperature of a middle region of filter (12) is monitored (e.g. See col. 7, lines 4-67; col. 8, lines 1-30).

Regarding claims 5 and 12, Van Nieuwstadt further discloses wherein desulfation of a NOx trap (72) is performed, characterized in that the internal temperature of at least two regions of filter (12) is monitored after desulfation of trap (e.g. See col. 7, lines 4-67; col. 8, lines 1-30).

Regarding claims 6, Van Nieuwstadt further discloses the oxygen level of the exhaust gases is reduced by operating the engine in rich mode (e.g. See col. 7, lines 4-67; col. 8, lines 1-30).

Regarding claims 7, Van Nieuwstadt further discloses the oxygen level of the exhaust gases is increased by operating the engine in lean mode (e.g. See col. 7, lines 4-67; col. 8, lines 1-30).

Claims 1-4, and 6-11 are rejected under 35 U.S.C. 102 (b) as being anticipated by Brighton et al. (Brighton) (Patent Number 4,651,524).

Regarding claims 1 and 8, Brighton discloses a method for regenerating a particle filter (14, 204) built into an exhaust line (Fig. 1) of an internal combustion engine, with the exhaust gases passing through the filter from an inflow face to an outflow face (Fig. 1), characterized in that, during filter regeneration: the internal temperature (125) of at least two regions of the filter (14, 204) is monitored; the oxygen level of the exhaust gases is reduced when at least one of the

temperatures monitored is greater than a critical temperature; the oxygen level of the exhaust gases is increased to continue filter regeneration when all the temperatures monitored are less than the critical temperature (e.g. See col. 7, lines 10-67; col. 8, lines 1-16).

Regarding claims 2 and 9, Brighton further discloses the internal temperature of one region of filter (14, 204) is monitored near its inflow face (e.g. See col. 9, lines 30-67; col. 10, lines 1-16).

Regarding claims 3 and 10, Brighton further discloses that the internal temperature of one region of filter (14, 204) is monitored near its outflow face (e.g. See col. 9, lines 30-67; col. 10, lines 1-16).

Regarding claims 4 and 11, Brighton further discloses the internal temperature of a middle region of filter (14, 204) is monitored (e.g. See col. 7, lines 4-67; col. 8, lines 1-30).

Regarding claims 6, Brighton further discloses the oxygen level of the exhaust gases is reduced by operating the engine in rich mode (e.g. See col. 7, lines 10-67; col. 8, lines 1-16).

Regarding claims 7, Brighton further discloses the oxygen level of the exhaust gases is increased by operating the engine in lean mode (e.g. See col. 7, lines 10-67; col. 8, lines 1-16).

Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure and consists of five patents:

Todoroki et al. (Pat. No. 7054734), Nagaoka et al. (Pat. No. 7207171), Saitoh et al. (Pat. No. 7254940), Sato et al. (Pat. No. 4450682), and Stobbe et al. (Pat. No. 5195319) all discloses an exhaust gas purification for use with an internal combustion engine.

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Examiner Binh Tran whose telephone number is (571) 272-4865.

The examiner can normally be reached on Monday-Friday from 8:00 a.m. to 4:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Thomas E. Denion, can be reach on (571) 272-4859. The fax phone numbers for the organization

where this application or proceeding is assigned are (571) 273-8300 for regular communications

and for After Final communications.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BT

January 21, 2008

Binh Q. Tran

Patent Examiner

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